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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference AT-SAR-9703-PCT FOR FURTHER A			FOR FURTHER ACT	rion	See Form PCT/IPEA/416
Interr	national application No).	International filing date (d	ay/month/year)	Priority date (day/month/year)
PCT/GB2004/004747 12.11.2004			12.11.2004		14.11.2003
Inter	national Patent Classi	fication (IPC) or na	lational classification and IPC)	
C11	D3/39. C11D17/0	4. C11D3/18. C	C11D3/37, C11D17/00		
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CH	EMLINK SPECIAL	LITIES LTD et	al		
1.	This report is the	international pre	liminary examination rep	ort, established by th according to Article 3	nis International Preliminary Examining 36.
2.			of 8 sheets, including thi		
3.			y ANNEXES, comprising		
) · .			o the International Burea		s, as follows:
	□ shoots	of the descripti	ion, claims and/or drawing	ns which have been a	amended and are the basis of this report see Rule 70.16 and Section 607 of the
	Admir	istrative Instruc	tions).		
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the				
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	b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)), containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental				m only, as indicated in the Supplemental - [
	Box Relat	ing to Sequence	Listing (see Section 802	of the Administrative	e Instructions).
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4.	This report conta	ins indications r	elating to the following ite	erns:	
	☑ Box No. I	Basis of the op	inion		
	☐ Box No. II	Priority			
	Box No. III	Non-establishn	nent of opinion with rega	d to novelty, inventiv	re step and industrial applicability
I	☐ Box No. IV	Lack of unity of			
ŀ	Box No. V Reasoned statement under Article 35(2 applicability; citations and explanations) with regard to nove supporting such state	lty, inventive step or industrial ement
☐ Box No. VI Certain documents cited			ents cited		
	☐ Box No. VII	Certain defects	s in the international appl	ication	
	☐ Box No. VIII	Certain observ	rations on the internation	al application	
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Dat	te of submission of the	edemand		Date of completion of	this report
10	10.06.2005			21.03.2006	
Authorized Officer					
Name and mailing address of the international preliminary examining authority:			onai	Authorized Officer	A Comment of the Comm
-	European	Patent Office - P.I	B. 5818 Patentlaan 2	Lainelet Taiana	
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/GB2004/004747

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	Rox	x No. I	Basis of the re	port	
1.	Witl filed	ith regard to the language , this report is based on the international application in the language in which it was ed, unless otherwise indicated under this item.			
		which is inter	s the language o rnational search lication of the int	f a translation furnishe (under Rules 12.3 and ernational application (
2.	hav	re been 1	furnished to the r	* of the international a eceiving Office in resp d are not annexed to t	application, this report is based on <i>(replacement sheets which ponse to an invitation under Article 14 are referred to in this this report)</i> :
	Des	cription,	Pages		
	1-13	3		as originally filed	
	Clai	ms, Nun	nbers		
	1-25		filed with telefax or	n 10.06.2005	
		a seque	ence listing and/o	r any related table(s)	- see Supplemental Box Relating to Sequence Listing
3.		☐ the d☐	description, page claims, Nos. drawings, sheets sequence listing	<i>f</i> iigs	·
4.	Sup	not bee plement the control the control the control	in made, since the made, since the sal Box (Rule 70 description, page claims, Nos. 4, 1 drawings, sheets sequence listing	ey have been conside 2(c)). s 1 figs	of) the amendments annexed to this report and listed below ered to go beyond the disclosure as filed, as indicated in the erecify):
	*	If ite	em 4 applies,	some or all of	these sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No. PCT/GB2004/004747

	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
1.	The obv	he questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- bvious), or to be industrially applicable have not been examined in respect of:				
		the entire international application,				
	Ø	claims Nos. 4 and 11				
		because:				
		the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):				
	☒	the description, claims or drawings (indicate particular elements below) or said claims Nos. 4 and 11 are so unclear that no meaningful opinion could be formed (specify):				
		see separate sheet				
		the claims, or said claims Nos. are so inadequately supported by the description that no meaningful opinion could be formed.				
		no international search report has been established for the said claims Nos.				
		the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:				
		the written form		has not been furnished		
				does not comply with the standard		
		the computer readable form		has not been furnished		
				does not comply with the standard		
		the tables related to the nucleo not comply with the technical re	tide a equire	and/or amino acid sequence listing, if in computer readable form only, do ements provided for in Annex C-bis of the Administrative Instructions.		
		See separate sheet for further details				

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Yes: Claims

7-10, 12, 13, 18-25

No: Claims

1-3, 5-6, 14-17

Inventive step (IS)

Yes: Claims

20-24

No: Claims

1-3, 5-10, 13-19, 25

Industrial applicability (IA)

Yes: Claims

1-3, 5-10, 12-25

No: Claims

2. Citations and explanations (Rule 70.7):

see separate sheet

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Re Item I

Basis of the report

The report is based on the amended claims 1-3, 5-10, 12-25 and the originally filed renumerated claims 4 and 11, for the following reasons:

1.1 Allowable amendments

Claim 1 has been amended to include the features of original claims 3 and 6 and to relate to a cleaning composition, the basis of which can be found on page 11 line 1.

Original claims 20 and 22 have been amended to include the feature of the original claim 3. New claim 25 has been added and has for basis page 11, line 1 of the description. In accordance with Art. 34(2)(b) PCT, such amendments do not go beyond the disclosure in the international application as filed and are therefore allowable.

Therefore the report is based on such amended claims and the renumerated claims.

1.2 Unallowable amendment

The reference to % in the application has been amended to relate to % by weight in the amended claims 4 and 11 without any basis in the international application as filed. Therefore such amendments go beyond the disclosure in the international application as filed, which contravenes Art. 34(2)(b) PCT, and are therefore unallowable. Therefore the report should be based on the renumerated claims 4 and 11 as originally filed.

Re Item III

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

The application as originally filed did not meet the requirements of Article 6 PCT, because % in the composition were given without reference about the method of measurement (in weight or in volume), which rendered the claims 5 and 13 as originally filed, the examples and the description (p.6 par.5, p.7 par.2, p.8 par.6, p.11 par.2) not clear. As amended renumerated claims 4 and 11, which aimed to overcome the clarity objection concerning these originally filed claims, are not allowable (see above paragraph 1.2) and as such unclarity still persists, then these claims would not be considered in the report.

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Re Item V

V.1 State of the art

The following documents are referred to in this communication:

D1: US 5 328 489 A (BEAUJEAN HANS-JOSEF ET AL) (1994-07-12)
D2: US-A-5 783 657 (PAVLIN ET AL) (1998-07-21)
D3: US 6 228 825 B1 (FIORE MELISSA ET AL) (2001-05-08)

V.2 Novelty objection

The present application does not meet the criteria of Article 33(1) PCT, because **the subject-matter of claims 1-3, 5-6, 14-17 is not new** in regard of **D1** in the sense of Article 33(2) PCT.

D1 does not disclose a composition located in a single compartment of an V.2.1 aqueous sensitive device, nevertheless the wording "locatable in a single compartment of an aqueous sensitive device" is a limiting feature of the scope of protection only in the sense that the composition should not contain an amount of water sufficient to disintegrate the aqueous sensitive device. As worded "locatable" it can also be not "located". Document D1 discloses (see D1: claims 1, 2 and 3 and examples 2 and 7) a cleaning composition suitable for use in a laundry washing process, including at least one aqueous sensible component (50-65% by weight of perborate monohydrate bleach) suspended in a non-aqueous liquid carrier including paraffin oil, which is a mineral oil explicitly used in examples 2 and 7 and claimed in claim 2, an emulsifying agent (C12/18 coconut oil alcohol + 7 EO) and an auxiliary component specifically in form of soap used to increase the viscosity of the liquid phase because soap constitutes the only exemplified auxiliary component (see D1: ex. 7, claims 1, 2, 3, col.2 lines 52-53, which combine all the features of new claim 1). This final composition is packed in plastic tubes or cartridges (see col.3 I.43-44) and therefore these tubes or cartridges form a device suitable for containing such composition.

Therefore the subject-matter of amended claims 1-3, 5-6, 14-16 is not new.

V.2.2 **D3** discloses a water soluble package comprising a nonaqueous liquid automatic dishwashing composition, which is detrimental to the novelty to claims 16 and 17, which are directed to device **suitable** for containing composition as defined in claim 1 but which is also suitable for the composition as defined in D3.

Therefore the subject-matter of amended claims 16 and 17 is not new.

V.3 Inventive step objection in light of D3 in combination with D2

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of claims 18, 19 and then also of claims 1-3, 5-10, 13-17 and 25 does not involve an inventive step in the sense of Article 33(3) PCT.

The document **D3** is regarded as being the closest prior art to the subject-matter of claim 18.

D3 discloses (claims 1 and 2, col.4 line 46 to col.5 line 7, example 1, col.3 lines 54-57) a water soluble sachet containing a dishwashing composition contained in a single compartment, said composition including (viii) enzyme, (viiii) a peroxygen bleaching agent, (x) a bleach activator and (b) a non-aqueous carrier component including (i) PEG Mw= 200 - 1,200 and (ii) polyethylene glycol having a molecular weight of 2,600 to 4,000 as a thickener for the nonaqueous liquid dishwashing composition (see claims 1, 2, ex.1), nonionic surfactant, which is a good emulsifying agent.

The subject-matter of claim 18 differs to D3 in the addition of **mineral oil** to a gelling agent of the non-aqueous carrier component.

The problem to be solved by the present invention may therefore be regarded as to provide a non-aqueous carrier component with better stability with time (see in the present application column 3 comments of the Applicant towards acknowledged D3) and advantageous in terms of cost (see in the present application the last paragraph of the description).

However, these features have already been employed for the same purpose in a similar composition.

Document D2 comes from an allied technical field and discusses gels suitable for household cleaning (see D2: col.3 l.41). D2 (see D2: claims 1, 14, 18, col.2 l.9-18, col.14 l.43-47) teaches a **self supporting gel** of pure hydrocarbon, which is a mineral oil, in combination of a gelling agent in a non-aqueous carrier component to provide personal care relatively inexpensive, which can also be used in household cleaner formulation. D2 discloses a method of manufacturing a composition for cleaning process containing mineral oil and a gelling agent, said method includes the steps of mixing the mineral oil and the gelling agent (ester-terminated polyamide resin) together at elevated temperature until the resin completely dissolves in the mineral oil (see cited passages of D2) to form homogenous mixture. It would be obvious to the person skilled in the art, namely when the same result is to be achieved, to apply these features with corresponding effect to the

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composition contained in a water-soluble sachet, according to document D3, thereby arriving at a water soluble sachet containing such composition according to claim 18. Therefore, the subject-matter of claims 1-3, 5-10, 13-19 and 25 does not involve an inventive step

V.6 INDEPENDENT CLAIM 20 and its dependent claims 21-24

The subject-matter of claim 20 and its dependent claims 21-24 is new and involves an inventive step.

The document **D2** is regarded as being the closest prior art to the subject-matter of claim 20.

D2 discloses (the references in parentheses applying to this document) a method of manufacturing a composition for cleaning process containing mineral oil and a gelling agent, said method includes the steps of mixing the mineral oil and the gelling agent (ester-terminated polyamide resin) together at elevated temperature until the resin completely dissolves in the mineral oil (see cited passages of D2) to form homogenous mixture.

The subject-matter of claim 20 differs to D2 in that the method comprises a further thereafter step consisting in adding an **emulsifying agent** to the mixture and said method is directed to the manufacture of cleaning composition according claim 1, therefore containing **aqueous sensitive component**.

The problem to be solved by the present invention may therefore be regarded as method of manufacturing a cleaning composition containing an aqueous sensitive component for prolonged periods of time in liquid or gel formulation which would not disintegrate the water soluble sachet.

None of the cited documents discloses such a problem.

Therefore the subject-matter of claim 20 and of its depending claims 21-24 is new and involves an inventive step.

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Claims:

- 1. A cleaning composition suitable for use in a cleaning or washing process, said composition locatable in a single compartment of an aqueous sensitive device and including at least one aqueous sensitive component and a non-aqueous carrier component for stabilising said aqueous sensitive component, characterised in that said non-aqueous carrier component includes a mineral oil, a gelling agent and an emulsifying agent for emulsifying the mineral oil.
- 2. A composition according to claim 1 characterised in that the aqueous sensitive component is substantially homogeneous with the non-aqueous carrier component.
- 3. A composition according to claim 1 characterised in that the emulsifying agent is or includes a surfactant.
- 4. A composition according to claim 1 characterised in that the emulsifying agent is provided in an amount between 1-10% by weight in the composition.
- 5. A composition according to claim 1 characterised in that the aqueous sensitive device is an aqueous soluble sachet.
- 6. A composition according to claim 1 characterised in that in that the aqueous sensitive component is or includes a bleaching agent.
- 7. A composition according to claim 6 characterised in that the bleaching agent is a halogen based bleaching agent.

- 8. A composition according to claim 6 characterised in that the bleaching agent includes any or any combination of sodium percarbonate, dichlorocyanurate, bromo-hydantoin or tetracetylethylene diamine.
- 9. A composition according to claim 6 characterised in that the composition includes a bleach activator for activating said bleaching agent when mixed with an aqueous solution.
- A composition according to claim 1 characterised in that the aqueous sensitive component is or includes an enzyme.
- 11. A composition according to claim 1 characterised in that the gelling agent is provided in an amount between 1-10% by weight of the composition.
- 12. A composition according to claim 1 characterised in that the gelling agent is a tertiary amide terminated polyamide or hydrocarbon -terminated polyamide block copolymer.
- 13. A composition according to claim 1 characterised in that the composition includes any or any combination of one or more detergent builders, fragrant components, inert fillers, water softeners, detergents, pigments, dyes or optical brighteners and enzymes.
- 14. A composition according to claim 1 characterised in that the mineral oil is C_{20} - C_{28} paraffin.
- 15. A composition according to claim 1 characterised in that the gelling agent is substantially soluble in the mineral oil.

- 16. A device for containing a composition as defined in claim 1.
- 17. A device according to claim 16 characterised in that the device is an aqueous sensitive device.
- A water soluble sachet, said sachet containing a 18. cleaning composition suitable for use in a cleaning or washing process, said composition contained in a single sachet, water soluble compartment in said composition including at least one bleaching agent, one or more bleach activating agents and a non-aqueous carrier stabilising said bleaching for component characterised in that said non-aqueous carrier component includes a mineral oil, a gelling agent substantially soluble in said mineral oil and an emulsifying agent for emulsifying the mineral oil.
- 19. A water soluble sachet according to claim 18 characterised in that one or more enzymes are contained in the composition and/or sachet.
- 20. A method of manufacturing a cleaning composition according to claim 1, characterised in that said method includes the steps of mixing the mineral oil and the gelling agent together at a temperature at or above the melting point of the gelling agent until the gelling agent substantially dissolves in the mineral oil to form a substantially homogenous mixture, thereafter adding an emulsifying agent to the mixture.
- 21. A method according to claim 20 characterised in that the composition is cooled to a pre-determined temperature



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whereupon one or more water softener components and/or chelating agents are added to the composition.

- 22. A method according to claim 20 characterised in that the temperature is 40°C or below.
- 23. A method according to claim 20 characterised in that one or more bleaching agents and/or bleach activators and are then added to the composition.
- 24. A method according to claim 20 characterised in that one or more bleaching agents, bleach activators and/or enzymes are then added to the composition.
- 25. A composition according to claim 1 characterised in that it is an auto dishwashing gel composition.